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US5756343: Cell stress transcriptional factor

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Inventor(s): **Wu; Carl**, Bethesda, MD
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Rabindran; Sridhar, Silver Spring, MD

Applicant(s): **The United States of America as represented by the Department of Health and Hu** Washington, DC

Issued/Filed Dates: **May. 26, 1998** / Jan. 7, 1994

Application Number: **US1994000178477**

IPC Class: **C12N 001/21; C12N 015/12; C12N 015/63;**

Class: **Current:** 435/252.3; 435/252.33; 435/254.11; 435/320.1; 435/325; 435/363; 536/023.1; 5
Original: 435/252.3; 536/023.1; 536/023.5; 435/320.1; 435/172.3; 435/252.33; 435/254. 435/363; 935/009; 935/010; 935/029; 935/072; 935/069; 935/070;

Field of Search: **536/23.1,23.5**
435/91.1,91.2,91.4,172.3,252.33,252.3,245.12,320.1,325,348,349,350,351,352,353,354,

Abstract: The present invention relates to DNA sequence coding for part or all of the heat shock transcription factor or heat shock factor (HSF) proteins derived from humans and Drosophila, and the proteins encoded by these sequences. The present invention also includes methods for detecting HSF in a biological sample. The presence of HSF in the nucleus of a cell can be detected with specific anti-HSF antibody reagents. The presence of such HSF proteins in the nucleus indicates a stressed condition including diseases. Furthermore, the presence of multimeric HSF in the crude or fractionated cell extract is indicative of a stressed state.

Attorney, Agent, or Firm: **Morgan & Finnegan, L.L.P.;**

Primary/Assistant Examiners: **Low; Christopher S. F.;**

Related Applications:

Application Number	ApplDate	Patent	Issued	Title
US1990000617910	1990-11-26			

U.S. References: (No patents reference this one)

Patent	Issued	Inventor(s)	Title

US5137805	8 /1992	Kingston et al.	Method of diagnosing stress condition by specific human heat shock factor

First Claim: Show all 15 claims

What is claimed is:

1. An isolated polynucleotide encoding a human heat shock factor (HSF), wherein said HSF has a nucleotide sequence selected from the group consisting of (a) the nucleotide sequence as shown in FIG. 13 (SEQ ID NO: 31); (b) an allele of the nucleotide sequence shown in FIG. 13 (SEQ ID NO:31) which encodes a protein which retains the HSF function of the amino acid sequence shown in FIG. 13 (SEQ ID NO: 32); and (c) a fragment of the nucleotide sequence shown in FIG. 13 (SEQ ID NO: 31) which encodes a protein which retains the HSF function of the amino acid sequence shown in FIG. 13 (SEQ ID NO: 32).

This is a divisional of application Ser. No. 07/617,910, filed on Nov. 26, 1990, now abandoned.

Foreign References: **none**

(No patents reference this one)

Other References:

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- Kingston, R.E.; Schuetz, T.J.; and Larin, Z. "Heat-Induceble Human Factor that Human Hsp70 Promoter." Mol. Cell. Biol. 7(4): 1530-1534, 1987.
- Larson, J.S.; Schuetz, T.J.; and Kingston, R.E. "Activation in vitro of Sequence DNA Binding by a Human Regulatory Factor", Nature 335: 372-375, 1988.
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- Schuetz, T.J.; Gallo, G.J.; Sheldon, L.; and Tempst, P. "Isolation of a cDNA for Evidence for Two Heat Shock Factors in Humans," Proc. Natl. Acad. Sci. USA 6915, 1991.
- Sorger, P.K. and Nelson, H.C.M. "Trimerization of a Yeast Transcriptional Acti Coiled-Coil Motif." Cell 59: 807-813, 1989.
- Andersson, L.O.; Borg, H.; and Mikaelsson, M. "Molecular Weight Estimations by Electrophoresis in Polyacrylamide Gels of Graded Porosity." FEBS Letters 2 201, 1972.
- Watson et al. 1987, in: Molecular Biology Of The Gene, Fourth Edtion, Benjamin/Cummings Publ. co., Menlo Park, CA p. 313.

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Patent Playtes

US5523221: Method for the directional cloning of DNA

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Inventor(s): **Weiner; Michael P.** , San Diego, CA

Applicant(s): **Stratagene**, La Jolla, CA

Issued/Filed Dates: **June 4, 1996** / June 16, 1993

Application Number: **US1993000078662**

IPC Class: **C12N 015/11; C12N 015/66;**

Class: **Current:** 435/091.2; 435/091.41; 435/091.52; 435/320.1; 536/027.11;
Original: **435/172.3;** 435/320.1; 536/027.11;

Field of Search: **435/172.3,320.1,91.1,91.4,91.42 536/27.11**

Abstract: A method for directionally cloning an insert DNA fragment into a target sequence using differential phosphorylation is disclosed, Monophosphorylated PCR fragments are directionally cloned into a monophosphorylated plasmid, Methods for directionally cloning non-PCR fragments into target DNA sequences are also discussed.

Attorney, Agent, or Firm: **Knobbe, Martens, Olson & Bear;**

Primary/Assistant Examiners: **Schwartz; Richard A.**; Gurian-Sherman; Douglas

U.S. References: **none**

(No patents reference this one)

First Claim: Show all 16 claims

I claim:

1. A method for directionally cloning an insert DNA sequence into a target DNA sequence comprising:

- generating a monophosphorylated target DNA sequence;
- generating a monophosphorylated insert DNA sequence; and
- combining said insert DNA sequence with said target sequence, wherein said insert sequence can ligate in only one orientation with respect to said target sequence.

Foreign References: **none**

(No patents reference this one)

Other References:

- Sambrook, J. et al. (1989). Molecular Cloning: A Laboratory Manual, 2nd Ed., Cas, N.Y.
- Kuisper, J. L. et al. (1992), Gene. 112(2) 147-155.

US5814473: Transaminases and aminotransferases

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Inventor(s): **Warren; Patrick V.** , Philadelphia, PA
Swanson; Ronald V. , Media, PA

Applicant(s): **Diversa Corporation**, La Jolla, CA

Issued/Filed Dates: **Sept. 29, 1998** / Feb. 9, 1996

Application Number: **US1996000599171**

IPC Class: **C12Q 001/48; C12Q 001/52; C12P 021/06; C12N 009/10;**

Class: **Current:** 435/015; 435/016; 435/069.1; 435/070.1; 435/128; 435/193; 435/252.3; 435/320.1; 536/023.2;
Original: **435/015**; 435/016; 435/069.01; 435/070.1; 435/193; 435/252.3; 435/320.1; 435/128; 536/023.2;

Field of Search: **435/69.1,70.1,193,252.3,320.1,15,16,128 536/23.2**

Abstract: Thermostable transaminase and aminotransferase enzymes derived from various ammonifex, aquifex and pyrobaculum organisms are disclosed. The enzymes are produced from native or recombinant host cells and can be utilized in the pharmaceutical, agricultural and other industries.

Attorney, Agent, or Firm: **Fish & Richardson, P.C.;**

Primary/Assistant Examiners: **Wax; Robert A.**; Slobodyansky; Elizabeth

U.S. References: **none**

(No patents reference this one)

First Claim: Show all 16 claims

What is claimed is:

1. An isolated polynucleotide selected from the group consisting of:

- (a) a polynucleotide encoding an enzyme as set forth in SEQ ID NOS: 25-32;
- (b) a polynucleotide which is complementary to the polynucleotide of (a); and
- (c) a polynucleotide comprising at least 15 consecutive bases of the polynucleotide of (a) or (b) and which hybridize under stringent conditions to a polynucleotide encoding an